## PMLevyCOLPEm Resource

**From:** Anderson, Brian
**Sent:** Wednesday, June 01, 2011 3:28 PM
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**Cc:** PMLevyCOLPEm Resource
**Subject:** DRAFT RAIs - SRP sections 2.3.1 and 2.3.3 - Levy County Units 1 and 2 Combined License Application
**Attachments:** LNP Draft RAI 5828 - 2.3.1.doc; LNP Draft RAI 5829 - 2.3.3.doc

**Importance:** High

Attached are draft RAIs related to SRP sections 2.3.1 and 2.3.3 for the Levy County Units 1 and 2 Combined License Application. Please let me know if you would like to schedule a conference call to discuss these RAIs.

Thank you,
Brian

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**Hearing Identifier:** Levy_County_COL_Public
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| LNP Draft RAI 5828 - 2.3.1.doc | 31738 | |
| LNP Draft RAI 5829 - 2.3.3.doc | 32762 | |

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Request for Additional Information No. 5828
Levy County, Units 1 and 2
Progress Energy Florida, Inc.
Docket No. 52-029 and 52-030
SRP Section: 02.03.01 - Regional Climatology
Application Section: Regional Climatology

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.01-***

AP1000 DCD Table 2-1 states that the normal ambient design temperature site parameters should be based on the 1-percent seasonal exceedance temperatures. The 1-percent seasonable exceedance temperature is approximately equivalent to the annual 0.4-percent exceedance. FSAR Section 2.3.1.2.7 and FSAR Table 2.3.1-201 state that the normal ambient site characteristic temperatures used in FSAR Table 2.0-201 are based on the 1-percent annual exceedance temperature. Update FSAR Table 2.0-201 and Table 2.3.1-210 to reflect that the normal ambient site characteristics temperatures are based on the 0.4-percent exceedance temperatures, or provide a justification as to why this is not necessary.

10 CFR 52.79(c)(1) states that if a COL application references a standard design approval, the FSAR must contain information sufficient to demonstrate that the characteristics of the site fall within the site parameters specified in the design approval.

Request for Additional Information No. 5829
Levy County, Units 1 and 2
Progress Energy Florida, Inc.
Docket No. 52-029 and 52-030
SRP Section: 02.03.03 - Onsite Meteorological Measurements Programs
Application Section: Onsite Meteorological Measurements Programs

QUESTIONS for Siting and Accident Conseq Branch (RSAC)

02.03.03-***

LNP COL FSAR Figure 2.1.1-203 and Figure 2.3.3-201 show that the onsite meteorological tower is located approximately 600 meters to the southwest of the nearest cooling tower. Please provide a discussion in the FSAR on the potential effects of the cooling tower plumes on the onsite meteorological system measurements during plant operation.

10 CFR Part 50, Paragraphs 50.47(b)(8) and 50.47(b)(9), as well as Section IV.E.2 of Appendix E are to be followed with respect to the onsite meteorological information that should be available for determining the magnitude and continuously assessing the impact of the releases of radioactive materials to the environment during a radiological emergency. NUREG-0800, Section 2.3.3(III)(1)(a)(2), states, in part, that the local exposure of the wind and temperature sensors is reviewed to ensure that the measurements will represent the general site area without plant structure interference. RG 1.23, Revision 1 states that ambient temperature and atmospheric moisture measurements should be made to avoid air modification by heat and moisture sources such as cooling towers.

02.03.03-***

LNP COL FSAR Section 2.3.3.1.4 states that routine calibration of the two ambient temperature and the two delta-T channels is not necessary because they are inherently stable.

10 CFR 100.20(c)(2) states that meteorological characteristics of the site that are necessary for safety analysis or that may have an impact upon plant design must be identified and characterized. RG 1.23, Revision 1, defines a system calibration as the process of validating the output of an observing system against known reference observations or standards and states that the channel calibrations should be performed semiannually for both pre-operational and operational monitoring programs. RG 1.206 states that any deviations from the guidance provided in RG 1.23 should be identified and justified.

Update the FSAR to provide further justification as to why the lack of calibration of the two ambient temperature and two delta-T channels is acceptable. Identify this as a deviation from RG 1.23, including listing this as an exception to RG 1.23 in FSAR Appendix 1AA.